ABSTRACT

An artificial bone is disclosed. The artificial bone comprises: a porous body comprising a lump of titanium or titanium alloy and having a porosity of 30 to 80%, the body having a interconnected pore (3) with a diameter of 100 to 3000 µm and a hole (4) with a diameter of 50 µm or less on an inner surface of the pore; and a film formed on at least a part of a surface of the pore and the hole, the film comprising at least one phase selected from an amorphous titanium oxide phase, an amorphous alkali titanate phase, an anatase phase and a rutile phase aligned with (101) plane. The artificial bone has high strength and osteoinductivity.

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